MISSOURI OIL AND GAS COUNCIL

APPLICATION FOR PERMIT TO DRILL, DEEPEN OR PLUG BACK

AME OF COMPANY OR OP	eet STE 202 Overland	Park	Kansas 66210	ember 11, 19
Address		ity	_	tate
Address		F WELL AND LEAS	F	
Name of lease		Well number		n (ground)
MacLaugh1:		3-A	1055	
WELL LOCATION 1645 ft	(give footage fro t. from (N) (S) sec. line $\frac{15}{}$	m section lines) 20 ft. from (E) (W)	sec line	
WELL LOCATION	. Nom (17/18) sec. me		County	
Section_	4 Township 46	Range 33	Cass	
Nearest distance from proposed I to property or lease line:		ice from proposed locat eted or applied — for w		feet
Proposed depth:	Rotary or Cable	tools	Approx. date work will sta	art
700'	Rotary		December 21, 198	1
Number of acres in lease:			on lease, including this well, rilling to this reservoir:	0/
300 acres more	or less	Number of aba	andoned wells on lease:	0
If lease, purchased with one or mo			No. of Wells: produ	cing
wells drilled, from whom purchas	ed: Name		inacti	ve
	Address		aband	oned
Remarks: (If this is an application	nt Blanke n to deepen or plug back, briefly de pected new producing zone) use bac	scribe work to be done,		☑ ON FILE ☐ ATTACHED
Remarks: (If this is an application	n to deepen or plug back, briefly de	scribe work to be done,		
Remarks: (If this is an application producing zone and exp	n to deepen or plug back, briefly de	scribe work to be done, ck of form if needed.		ATTACHED
Remarks: (If this is an application producing zone and expenses of the proposed casing program: amt. size	n to deepen or plug back, briefly de pected new producing zone) use bac wt./ft. cem.	scribe work to be done, ck of form if needed.	giving present	ATTACHED
Remarks: (If this is an application producing zone and exp	n to deepen or plug back, briefly de pected new producing zone) use bac	Approved casing —	giving present To be filled in by State Geologi	□ ATTACHED
Proposed casing program: amt. size 25' 7'' 650' 4 1/2''	wt./ft. cem. 26.6 6 8acks 10.5 90 sacks the President company to make this report; and to ue, correct and complete to the best	Approved casing — amt. of the Prai	giving present To be filled in by State Geologis size wt./ft.	cem.
Proposed casing program: amt. size 25' 7'' 650' 4 1/2'' I, the undersigned, state that I am and that I am authorized by said of that the facts stated therein are tr	wt./ft. cem. 26.6 6 8acks 10.5 90 sacks the President company to make this report; and to ue, correct and complete to the best	Approved casing — amt. of the Prail hat this report was preport of my knowledge.	giving present To be filled in by State Geologis size wt./ft.	cem.
Proposed casing program: amt. size 25' 7'' 650' 4 1/2'' I, the undersigned, state that I am and that I am authorized by said of that the facts stated therein are treatment.	wt./ft. cem. 26.6 6 8acks 10.5 90 sacks the President company to make this report; and to ue, correct and complete to the best	Approved casing — amt. of the Prail hat this report was preport of my knowledge.	Fo be filled in by State Geologic size wt./ft. rie Energy Corp. ared under my supervision and holes Z. Pare	cem.
Proposed casing program: amt. size 25' 7'' 650' 4 1/2'' I, the undersigned, state that I am and that I am authorized by said of that the facts stated therein are tree proval Date:	wt./ft. cem. 26.6 6 sacks 10.5 90 sacks to the President company to make this report; and true, correct and complete to the besident.	Approved casing — amt. of the Praintat this report was preport of my knowledge.	giving present To be filled in by State Geologic size wt./ft. Tie Energy Corp. ared under my supervision and land and land are supervision are supervision and land are supervision and land are supervision and land are supervision are supervision.	cem. (company), direction and
Proposed casing program: amt. size 25' 7'' 650' 4 1/2'' I, the undersigned, state that I am and that I am authorized by said of that the facts stated therein are troproved By:	wt./ft. cem. 26.6 6 sacks 10.5 90 sacks to any other	Approved casing — amt. of the Praintat this report was preport of my knowledge.	giving present To be filled in by State Geologic size wt./ft. Tie Energy Corp. ared under my supervision and wholes REQUIRED SAMPLES NOT REQUIRED SAMPLES NOT REQUIRED	cem. (company), direction and
Proposed casing program: amt. size 25' 7'' 650' 4 1/2'' I, the undersigned, state that I am and that I am authorized by said of that the facts stated therein are tree proved By: pproved By: permit Number: 20236 pproved By: person or to any other location are to any other	wt./ft. cem. 26.6 6 sacks 10.5 90 sacks to any other on.	Approved casing — amt. of the Praintat this report was preport of my knowledge.	giving present To be filled in by State Geologic size wt./ft. Tie Energy Corp. ared under my supervision and wholes REQUIRED SAMPLES NOT REQUIRED SAMPLES NOT REQUIRED	cem. (company), direction and Li LI V L FC 1 4 1981

Laasa Name: _ 1645 feet from	South (N) - (S)	1520	feet from	ast -(W)		of Sec. 4	County: , Twp. 4	6 N. Range	33
N	LEAL	SE C	INE	T	T	T]
ROAD				3					
25 8				1)3					
HOLMES RO				A55					
CINE CINE					15	FR. 4			
						, , ,			
A training and a signature of the signat	*				WELL	THE I	165'		
1					NO. 3-	A			
	721			UNE				re E Li	EIVE
=1000'		LEASE						DEC	1 4 1981
							١٧	O. UIL &	GAS COU
MARKS:									
			No. 3-A		?				
		Eleva	ation 10	55					

INSTRUCTIONS

On the above plat, show distance of the proposed well from the two nearest section lines, the nearest lease line, and from the nearest well on the same lease completed in or drilling to the same reservoir. Do not confuse survey lines with lease lines. See rule 10 CSR 50-2.030 for survey requirements.

Remit two copies to: Missouri Oil and Gas Council

One will be returned.

P.O. Box 250, Rolls, Mo. 65401

above plat.

Registered Land Surveyor

50-2.030 and that the results at Overlatty shows

			v 5-2-	м	issouri Oil ar	nd Gas Cour	cil					Form OGC-5
	41		WELL COMP	ETION O	R RECOMP	LETION RE	PORT AP	ND WELL	LOG			
New Well X Worl	kowr 🗌	Deepen _	Plug Back [Inje	ection	Same Rese	rvoir X	Differe	ent Reservoir	_ °	# X	Gee Dry
(honer						Address			110th			ite 202
Prairie Ener	gy Corp	oratio	on					land	Park,	Kansas	662	210
MacLaughli	n					3-A	• 1					
1645	FSL, 15	20' FE	L						wp., and Ran			
County Permit number (OGC 3 or OGC 31)												
Cass			236				1	(DF	DVD DT -	@	Elevation	of casing hd. flange feet
Date spudded			14/82		nject 0 / 1 i	5/82	Ce Elev	105		OJ., IREL	ERVATION	or casing no. nange
12/30/81		P.B.T.D.	14/02		2/13	0/82		103	, ,			
640'		P. B. 1 U.										
Producing or injection int	erval(s) for this	completion					s used (inte			Cable to	ols used (in	nterval)
			Squi	rrel		From Drilling Flo	uid used	air_	D	From _		to
Was this well directionally	drilled?	Wa	s directional surve	y made?		Was copy o	d directiona	survey file	·d·>	Dase file	d	
No			N/A				N/A				N/	'A
Type of electrical or other	logs run (list l	ogs filed with	the State Geolog	st)						Date file		
Gamma Ray Ne	eutron										Wi	th report
					CASING F	RECORD						
Casing treport all strings s	Size hole		Size casing		Weight ((lb. ft.)	· Dent	th set		Sacks ceme	nt	Amt. pulled
			5176 (83114)	,,,						5		
surface	10	1.//	7		6.5	25 599			110			
casing	6_	1/4	2 7/	5	0.5		199		-	110	THE S	
1	TUBING RECO	RD	1				LINER RE	CORD				
Size	Depth set	Pac	ker set at	Size		Top Bottom Sad				Sacks ce	ment	Screen (ft.)
in		ft.	ft.		ıň.	-1 = =	ft.		ft.			
	PERFO	RATION RE	CORD				ACID	SHOT, FI	RACTURE, C	EMENT SO		
Number per ft	Size & type	_	Depth	Interval		Amount and kind of material used				Dep	th Interval	
29 2	1/8" ⁸	lass	542-55	6								
		700										
							TIAL PROD					
Date of first production o	rinjection	Pro	ducing methix! (ii							ımp		
2/15/82 Date of test Hrs	tested	Choke si	pumping	produced du		Gas produc	ced during to	barr	Water prod	uced during	test	Oil gravity
Date of lest	. testeo	11		p. 0.00cca a.	bbls.			MCF			bbls.	API (Corr.)
Tubing pressure	Casing pres	1	Cal'ted rate o	Production		1	Gas		w.	ter		Gas - oil ratio
, , , , , , , , , , , , , , , , , , , ,			per 24 hours		2	bbls.	No)	MCF	20	bbls.	
Disposition of gas (state w	hether vented.	used for fuel	or sold):									
Method of disposal of mu	d pit contents											
			Buried									
CERTIFICATE: I, authorized by said compa knowledge	the undersigned	d, state that I	am the <u>Land</u> that this report wa	Manaş	cer nder my super	of the vision and dire	Prair ection and the	ie En	s stated there	orpora in are true,	correct and	-(company), and that I am complete to the best of my
See A	Attached	d Drill	lers Log		gni mata	optinich	bear, ord	a de la l	fereb yra	from to a	ikyk meg	recess to West?"

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AUG 2 3 1982

TEST	ROD	INC	100
ILSI	DUN	IIVG	LUC

Project	Prairie En	ergy Co	rporati	on		Boring No. 3-A	Sheet 1 of 5
1	McLaughlin	Lease				Surface Elevation Offset	
Address S	ec 4 T 4	6NR	33 W	1520 FE 1645 F	SL	Date Started 12/30/81 Completed	01/14/82
City & State	Grandv	iew, Mi	ssouri			Driller V. R. Campbell Rig	G.D. 1500
				Abb	oreviations:	A.O. – Auger Only H.A. – Hollow Auger W.B. – Wash Bore R.B. – Rock Bit S.S. – Split Spoon S.T. – Shelby Tube	C.W. — Core Water C.A. — Core Air F.B. — Finger Bit
D	EPTH			TION RECORD	SAMPLE DESCRIPTION	V	
FROM	то	METHOD	POCKET PENETRO. METER	NO. OF BLOWS	CORE	COLOR-MATERIAL-MOISTURE-CLA	Y CONSISTENCY D DENSITY
0.0'	1.0'	RB				Topsoil	
1.0'	6.0'	RB				Brown clay	
6.0'	13.0'	RB				Gray limestone	
13.0'	42.0'	RB				Gray shale	
42.0'	53.0'	RB				Gray limestone	
53.0'	63.0'	RB				Gray shale	
63.0'	66.0'	RB				Red shale	
66.0'	74.0'	RB				Gray shale	
74.0'	79.0'	RB				Red shale	
79.0 '	80.0'	RB				Gray shale	
80.0'	84.0'	RB				Gray limestone	
84.0'	85.0'	RB	IT HO			Dark gray shale	
85.0'	126.0'	RB				Gray shale	
126.0'	128.0'	RB				Gray limestone	
128.0'	139.0'	RB				Gray shale AUG 23	
139.0'	141.0'	RB				Gray limestone	Cauncii.
REMARKS:	(Casing, Wate	er Loss, Etc	c.)			Water Level Time [Date (Completion)

Layne-Western Company, Inc.

	rairie En	ergy co	orporation	511		Boring No. 3-A Sheet 2 of 1
1						Surface Elevation Offset
ddress						Date Started Completed
ity & State						Driller Rig
				А	A.O. — Auger Only R.B. — Rock Bit C.W. — Core Wate H.A. — Hollow Auger S.S. — Split Spoon C.A. — Core Air W.B. — Wash Bore S.T. — Shelby Tube F.B. — Finger Bit	
DI	EPTH			TION RECOR	B ~	SAMPLE DESCRIPTION
FROM	ТО	МЕТНОВ	POCKET PENETRO- METER	NO. OF BLOWS	CORE	COLOR-MATERIAL-MOISTURE-CLAY CONSISTENCY SAND DENSITY
141.0'	143.0'	RB				Gray shale
143.0'	152.0'	RB				Dark gray limestone w/shale seams
152.0'	155.0'	RB				Gray shale
155.0'	165.0'	RB				Light gray limestone
165.0'	167.0'	RB				Dark gray shale
167,0'	168.0'	RB				Black shale
168.0'	172.0'	RB				Gray shale
172.0'	191.0'	RB				Gray limestone
191.0'	192.0'	RB				Black shale
192.0'	195.0'	RB				Gray shale
195.0'	197.0'	RB				Black shale
197.0'	198.0'	RB				Gray shale
198.0'	207.0'	RB				Gray limestone
207.0'	210.0'	RB				Gray shale
210.0'	212.0'	RB				Gray sandy shale
212.0'	216.0'	RB				Gray sandstone
EMARKS:	(Casing, Wate	r Loss, Et	c.)			Water Level Time Date

Layne-Western Company,Inc.

	Prairie E	mergy (corporat.	LOII		0,1000 3 01 3
A -1-1						Surface Elevation Offset
Address						Date Started Completed
City & State						Driller Rig
				Al	obreviations	A.O. – Auger Only R.B. – Rock Bit C.W. – Core Water H.A. – Hollow Auger S.S. – Split Spoon C.A. – Core Air W.B. – Wash Bore S.T. – Shelby Tube F.B. – Finger Bit
D	EPTH			TION RECORE	ERY	SAMPLE DESCRIPTION
FROM	ТО	METHOD	POCKET PENETRO- METER	NO. OF BLOWS	CORE	COLOR-MATERIAL-MOISTURE-CLAY CONSISTENCY SAND DENSITY
216.0'	230.0'	RB				Gray shale
230.0'	235.0'	RB				Gray sandy shale
235.0'	250.0'	RB				Gray shale
250.0'	255.0'	RB				Gray sandstone
255.0'	310.0'	RB				Gray shale
310.0'	320.0'	RB				Gray sandstone
320.0'	340.0'	RB				Gray shale
340.0'	346.0'	RB				Gray sandstone
346.0'	369.0'	RB				Gray shale
369.0'	372.0'	RB				Gray sandstone
372.0'	378.0'	RB				Gray shale
378.0'	381.0'	RB				Red shale
381.0'	392.0'	RB				Gray shale
392.0'	396.0'	Rb				Light brown limestone
396.0'	397.0'	RB				Black shale
397.0'	398.0'	RB				Brown limestone
EMARKS:	(Casing, Water	r Loss, Etc	.)			Water Level Time Date
						(Completion)

Layne-Western Company,Inc.

I W-597

roject P	rairie En	erqy Co	orporation	on		Boring No. 3-A Sheet 4 of 5
1						Surface Elevation Offset
Address						Date Started Completed
City & State						Driller Rig
				Abb	oreviations:	A.O. – Auger Only R.B. – Rock Bit C.W. – Core Water H.A. – Hollow Auger S.S. – Split Spoon C.A. – Core Air W.B. – Wash Bore S.T. – Shelby Tube F.B. – Finger Bit
DI	EPTH		-	TION RECORD	RY	SAMPLE DESCRIPTION
FROM	то	МЕТНОВ	POCKET PENETRO- METER	NO. OF BLOWS	CORE	COLOR-MATERIAL-MOISTURE-CLAY CONSISTENCY SAND DENSITY
398.0'	400.0'	RB				Gray shale
400.0'	402.0'	RB				Black shale
402.0'	406.0'	RB				Gray shale
406.0'	416.0'	RB				Brown limestone
416.0'	430.0'	RB				Gray shale
430.0'	431.0'	RB				Black shale
431.0'	438.0'	RB				Dark gray shale
438.0'	441.0'	RB				Dark brown limestone
441.0'	475.0'	RB				Dark gray shale
475.0'	495.0'	RB				Gray sandy shale
495.0'	496.0'	RB				Black shale
496.0'	535.5'	RB				Gray sandy shale
535.5'	545.5'	CWl			10.0'	Gray sandstone
545.5'	550.5'	CW2			5.0'	Same
550.5'	560.5'	CW3			10.0'	Same
560.5'	567.1'	CW4				Gray sandstone
EMARKS:	(Casing, Wate	r Loss, Et	c.)			Water Level Time Date (Completion

Layne-Western Company, Inc.

roject P	rairie En	ergy Co	rporation	on		Boring No 3-A Sheet _5 _ of _5
/						Surface Elevation Offset
Address						Date Started Completed
City & State					0.7-	Driller Rig
				Abb	oreviations:	A.O. — Auger Only R.B. — Rock Bit C.W. — Core Water H.A. — Hollow Auger S.S. — Split Spoon C.A. — Core Air W.B. — Wash Bore S.T. — Shelby Tube F.B. — Finger Bit
DI	EPTH			TION RECORD	<u>}</u>	SAMPLE DESCRIPTION
FROM	ТО	METHOD	POCKET PENETRO- METER	NO. OF BLOWS	CORE RECOVERY	COLOR—MATERIAL—MOISTURE—CLAY CONSISTENCY SAND DENSITY
567.1'	570.5'	CW4			10.0'	Gray limestone
570.5'	580.5'	CW5			10.0'	Same
580.5'	595.0'	RB				Gray limestone w/shale layers
595.0'	596.0'	RB				Coal
596.0'	620.0'	RB				Gray shale
620.0'	622.0'	RB				Gray limestone
622.0'	635.0'	RB				Gray shale
635.0'	640.0'	RB				Black shale
640.0'	Total De	epth				
				7		
REMARKS:	(Casing, Wate	er Loss, Etc	c.)			Water Level Time Date
						(Completion)

Layne-Western Company, Inc.

MISSOURI GEOLOGICAL SURVEY AND WATER RESOURCES, ROLLA, MISSOURI

COUNTYCOMPANY OR OWNERPrairie	Cass			MGS LOG	NO. Dri	llesso
COMPANY OR OWNER MPrairie	Energy (orp.	ET I NO 3-A		 	
Action MacLaughlin LOCATION 1645'FSL, 1520'FE	L SEC 4	T T	46 R 33	-+- -	++-	- + -
CONTRACTOR/DRILLER V	R Campbe	11		1	1 1	1-1-1
COMMENCED 12-30-81	COMI	PLETED	01-14-82		!!!	1!!
COMMENCED 12-30-81 PRODUCTION 011	2 bbls./c	lay		-+- -	+- -+-	1-1-
CASING RECORD						+
WATER RECORD				-+- -	++-	-+-
SOURCE OF LOG				i i	ili	li
REMARKS 0	GC # 2023	26			1 1	1
	# 202.			-+- -	+- -+-	-+-
				ELEV.	1055	1
NO. SAMPLES	SAMPL	ES RECE	IVED	TOTAL DI	EPTH	640'
				SWL		
			T			
FORMATION	FROM	TO	FORMATION		FROM	TO
	(ft)	(ft)			(ft)	(ft)
Toncoil	0	1	Gray sandy shal	e	210	210
Topsoil Brown clay	1	6	Gray sandstone		212	212 216
Gray limestone	6	13	Gray shale		216	230
Gray shale	13.0	42	Gray sandy shal		230	235
Gray limestone	42	53	Gray shale		235	250
Gray shale	53	63	Gray sandstone		250	255
Red shale	63	66	Gray shale		255	310
Gray shale	66	74	Gray sandstone		310	320
Red shale Gray shale	74 79	79 80	Gray shale Gray sandstone		320 340	340 346
Gray limestone	80	84	gray shale		346	369
Dark gray shale	84	85	Gray sandstone		369	372
Gray shale	85	126	Gray shale		372	378
Gray limestone	126	128	Red shale		378	381
Gray shale	128	139	Gray shale		381	392
Gray limestone	139	141	Light brown lim	estone	392	396
Gray shale	141 143	143 152	Black shale Brown limestone		396 397	397 398
Dark gray limestone w/shale seams.	143	132	Gray shale		398	400
Gray shale	152	155	Black shale		400	402
Light gray limestone	155	165	Gray shale		402	406
Dark gray shale	165	167	Brown limestone		406	416
Black shale	167	168	Gray shale		416	430
Gray shale	168	172	Black shale		430	431
Gray limestone	172	191	Dark gray shale		431	438
Black shale	191 192	192 195	Dark brown lime Dark gray shale		438 441	441 475
Gray shale Black shale	195	197	Gray sandy shall		475	475
Gray shale	197	198	Black shale		495	496
Gray limestone	198	207	Gray sandy shal	е	496	535.5
Gray shale	207	210	Gray sandstone		535.5	567.1

MISSOURI GEOLOGICAL SURVEY AND WATER RESOURCES, ROLLA, MISSOURI

	ass			MGS LOG	NO. Drill	lerio
COMPANY OR OWNERPrairie FARMMacLaughlin LOCATION 1645'FSL, 1520'FEL CONTRACTOR/DRILLER			- + - - + - - + - - + - - + - - + -			
NO. SAMPLES	SAMPL	ES RECEI	VED	ELEV TOTAL DI	EPTH 64	
FORMATION	FROM (ft)	TO (ft)	FORMATION		FROM (ft)	TO (ft)
Gray limestone Gray limestone w/shale layers Coal Gray shale Gray limestone Gray shale Black shale T.D.	567.1 580.5 595.0 596.0 620.0 622.0 635.0	580.5 595.0 596.0 620.0 622.0 635.0 640.0				